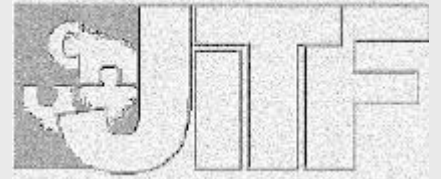


Performance Measurement

at the Joint Integration Test Facility

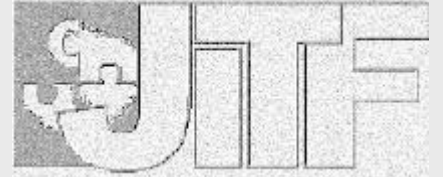
Performance Measurement Plan



Establishes six measurements based on goals of the enterprise:

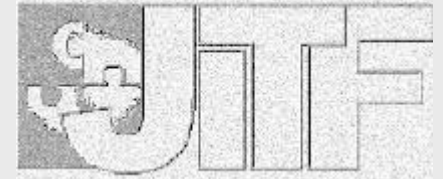
- Goal 1 – Maximize Customer Satisfaction
 - *Measure 1.A. – Customer Surveys*
 - *Measure 1.B – Timeliness of Test Reporting*
- Goal 2 – Increase quality of Intelligence Mission Applications (IMA)
 - *Measure 2.A – Requirements Met*
 - *Measure 2.B – Requirements Not Met*
- Goal 3 – Maximize Efficiency
 - *Measure 3.A – Schedule Volatility*
 - *Measure 3.B – Comments Against Test Report*

Metric 1A: Customer Surveys

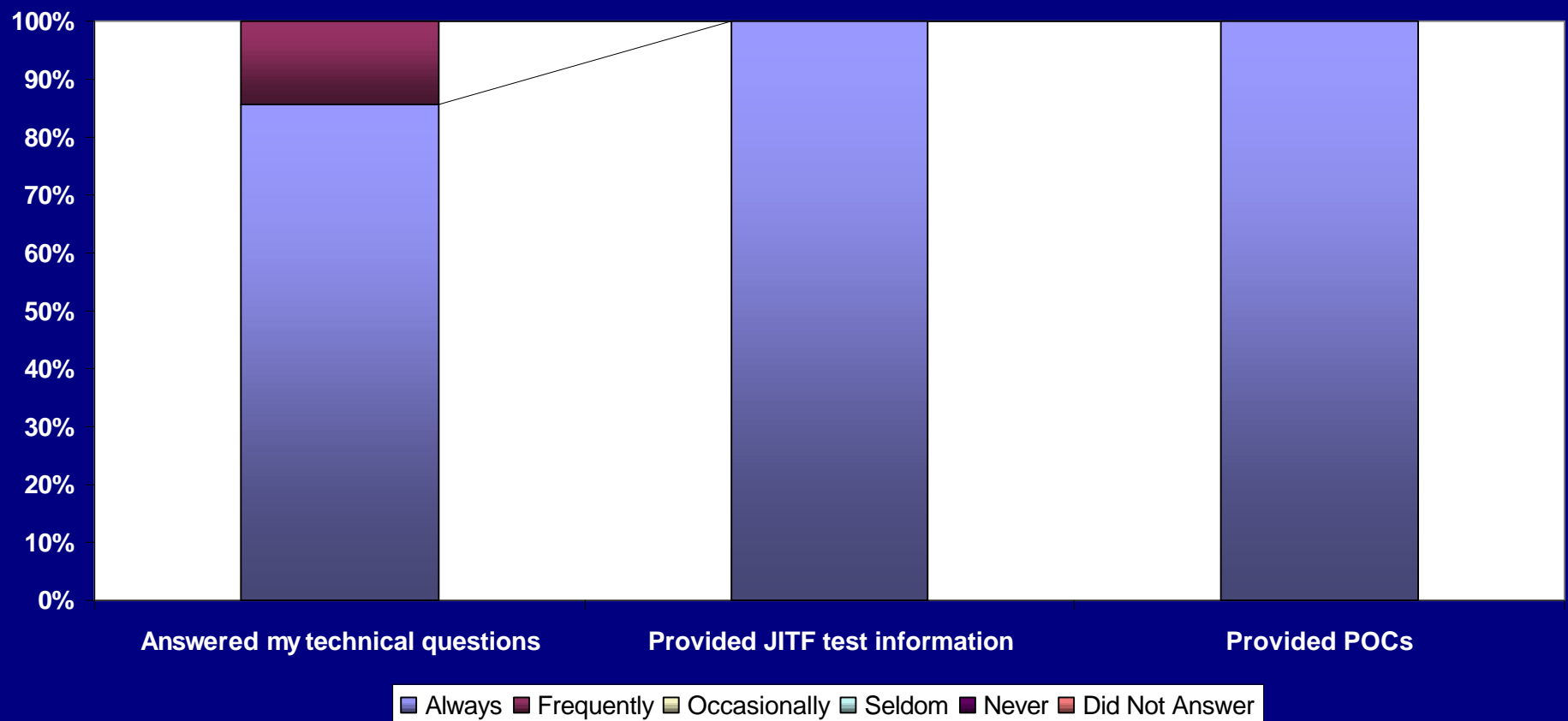


- Standards/targets – minimum of 90% customer satisfaction.
- Conducted Program Management Office (PMO) Entrance and Exit Surveys
 - 100% satisfaction rating in Entrance Surveys
 - 96.9% satisfaction rating in Exit Surveys
- Test Study Review provided informative feedback
- Formal User Surveys are planned for FY2001

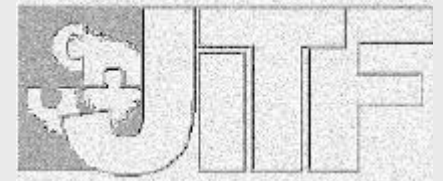
PMO Entrance Survey Satisfaction Levels



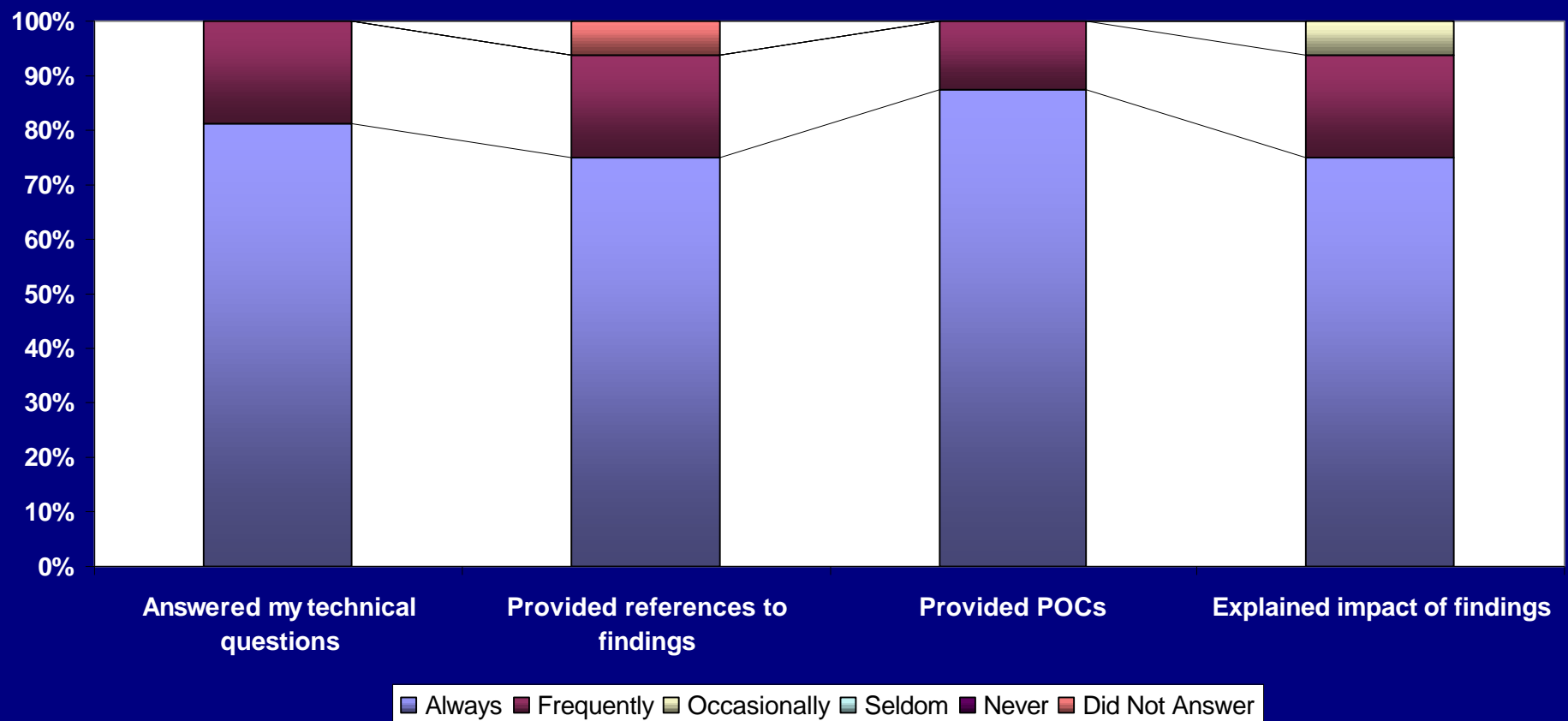
ENTRANCE SURVEY:
Please indicate your level of satisfaction with the JITF



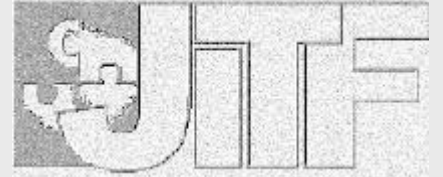
PMO Exit Survey Satisfaction Levels



EXIT SURVEY:
Please indicate your level of satisfaction with the JITF



Metric 1B: Timeliness of Test Reporting



- Standards/targets –

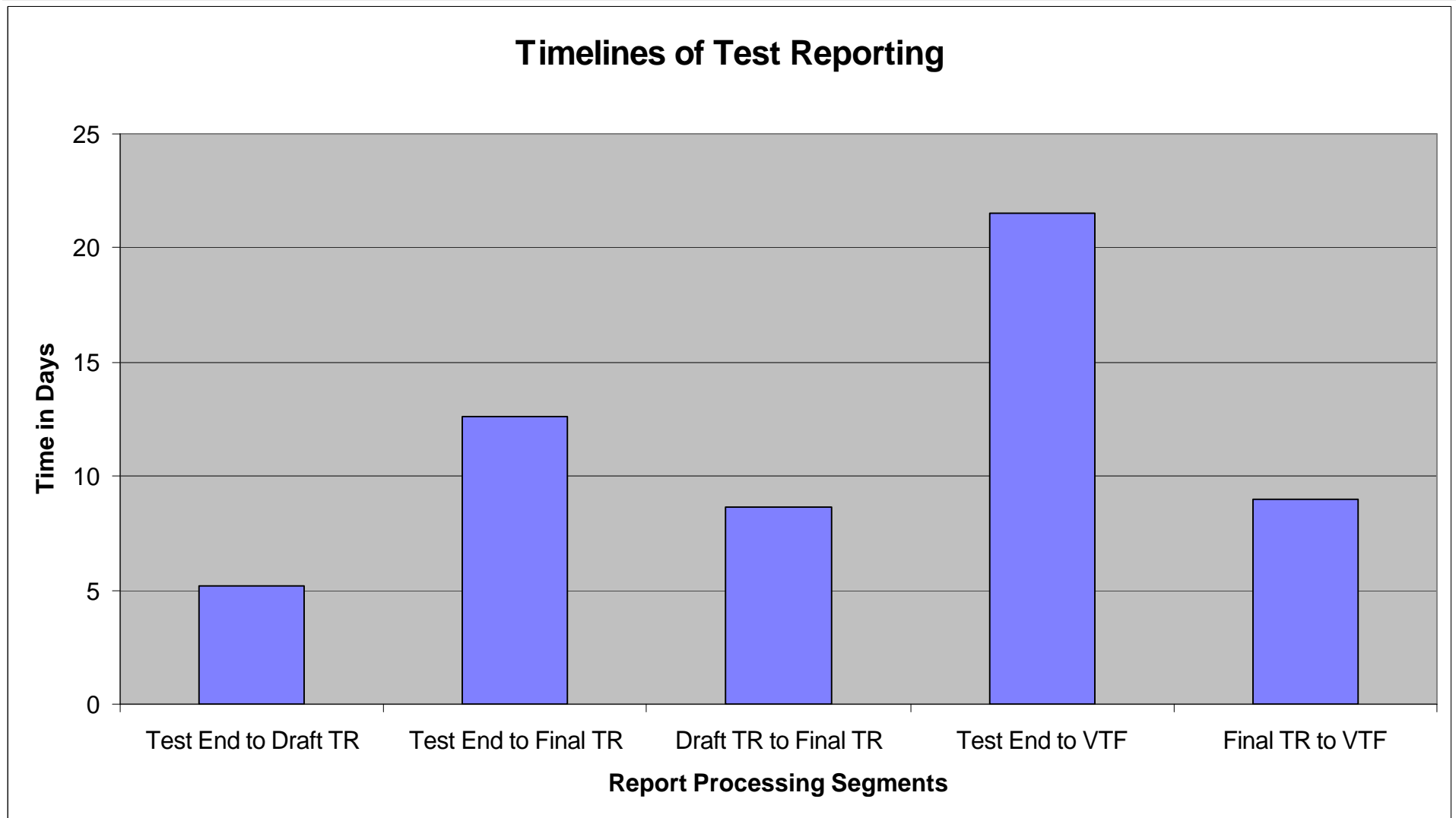
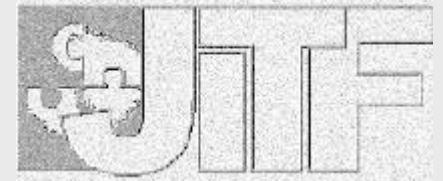
Publish Draft Test Report within 5 days after completion of testing. We averaged **5.15** days.

Publish Final Test Report within 10 days after completion of testing. We averaged **12.62** days.

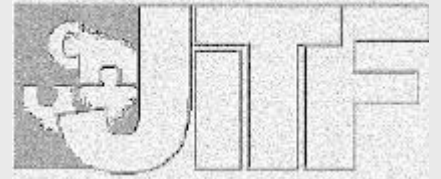
Post Final Test Report in the Virtual Test Folder within 20 days after completion of testing. We averaged **21.52** days.

- The process between the Draft and the Final needs more attention.

Timeliness of Test Reporting

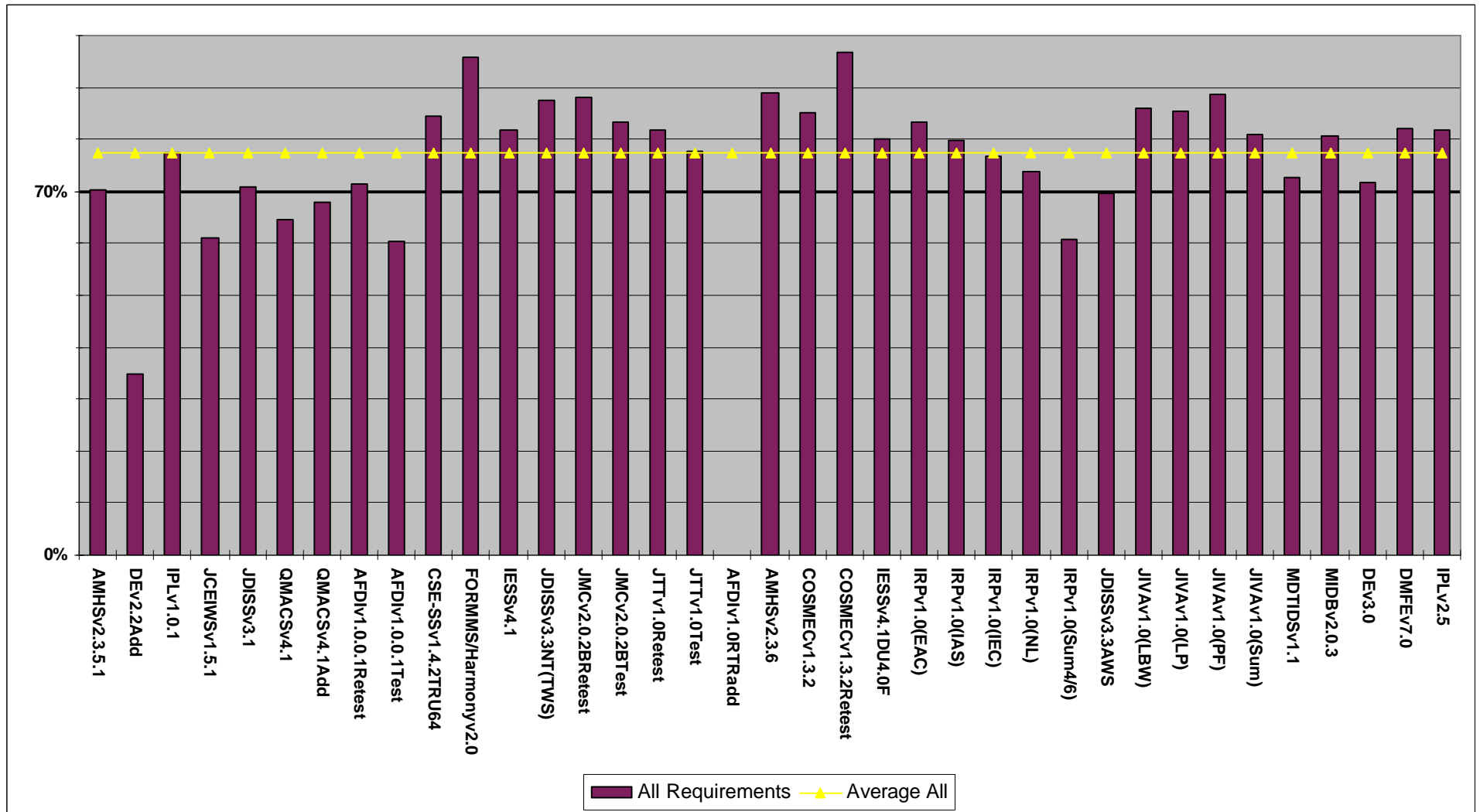
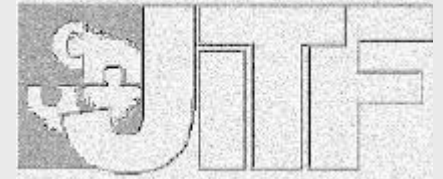


Metric 2A: Requirements Met

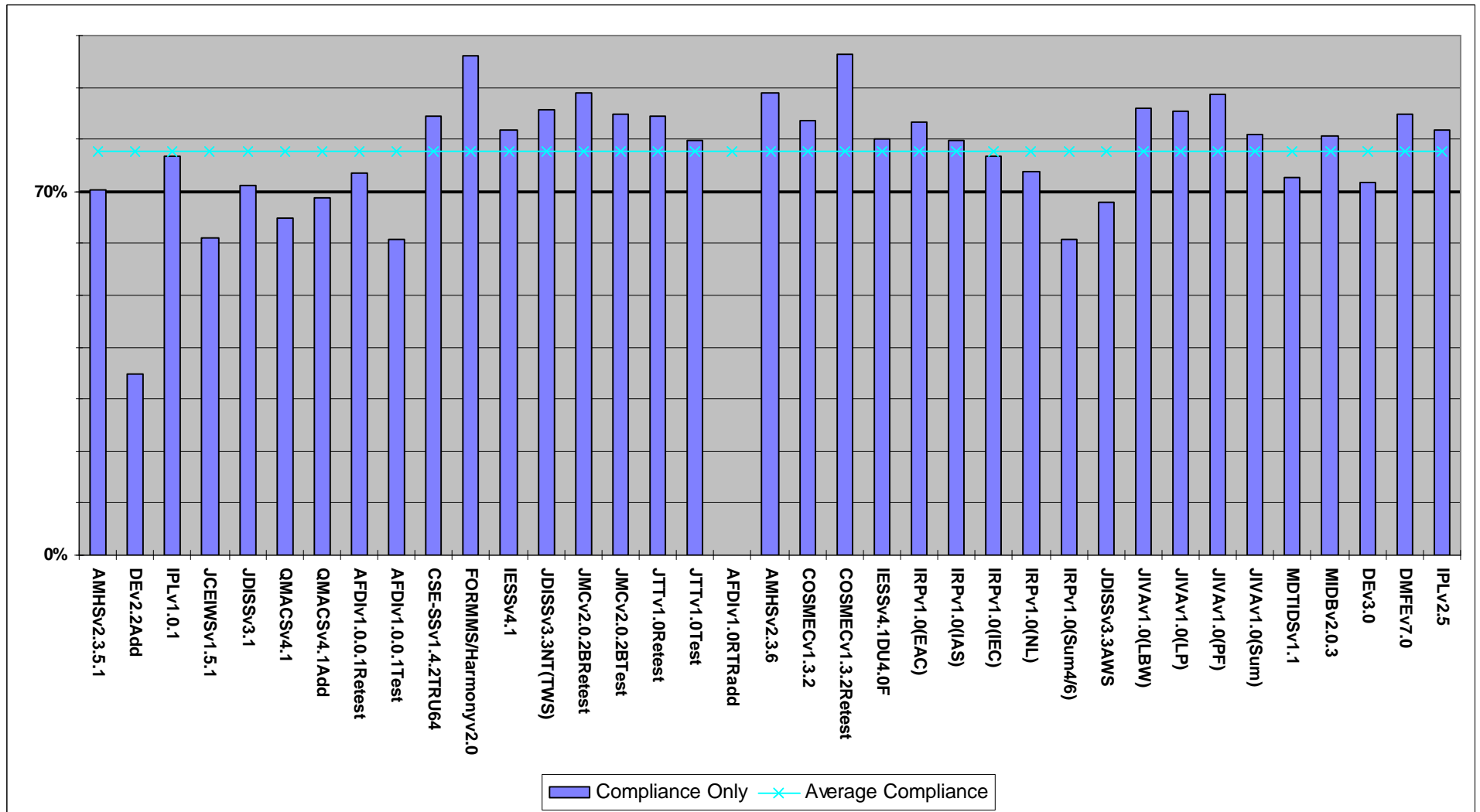
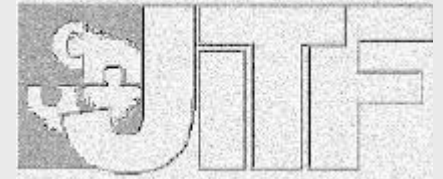


- Standards/targets – Increase Integration quality of IMAs tested in FY2000 by 5% over those tested in FY1999
- Average percentage of requirements met in FY1999 was 73.16%
- Target for FY2000 = 76.82%.
- Goal Exceeded.
- The average requirements met in FY2000 was 77.88%.
- This is an integration quality increase of 6.45 %.

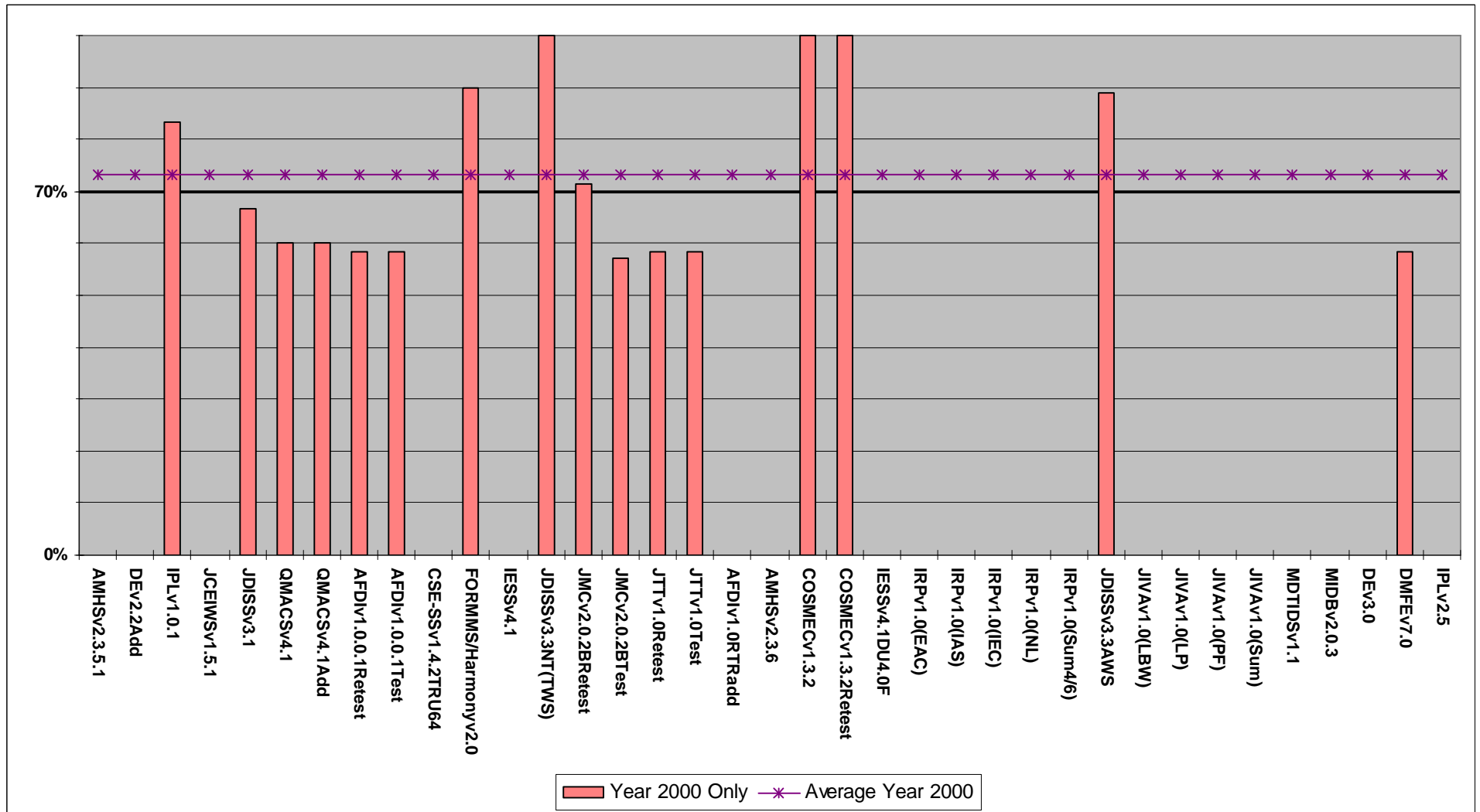
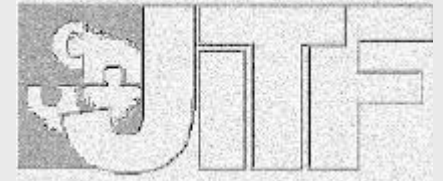
Requirements Met: All



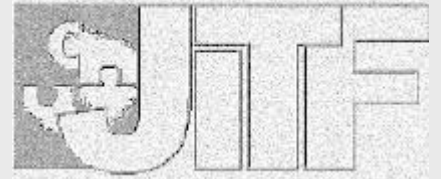
Requirements Met: Compliance Only



Requirements Met: Year 2000 Only



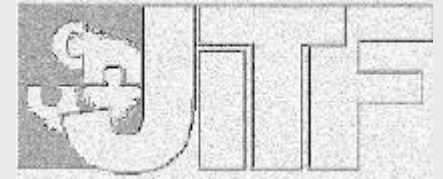
Metric 2B: Requirements Not Met



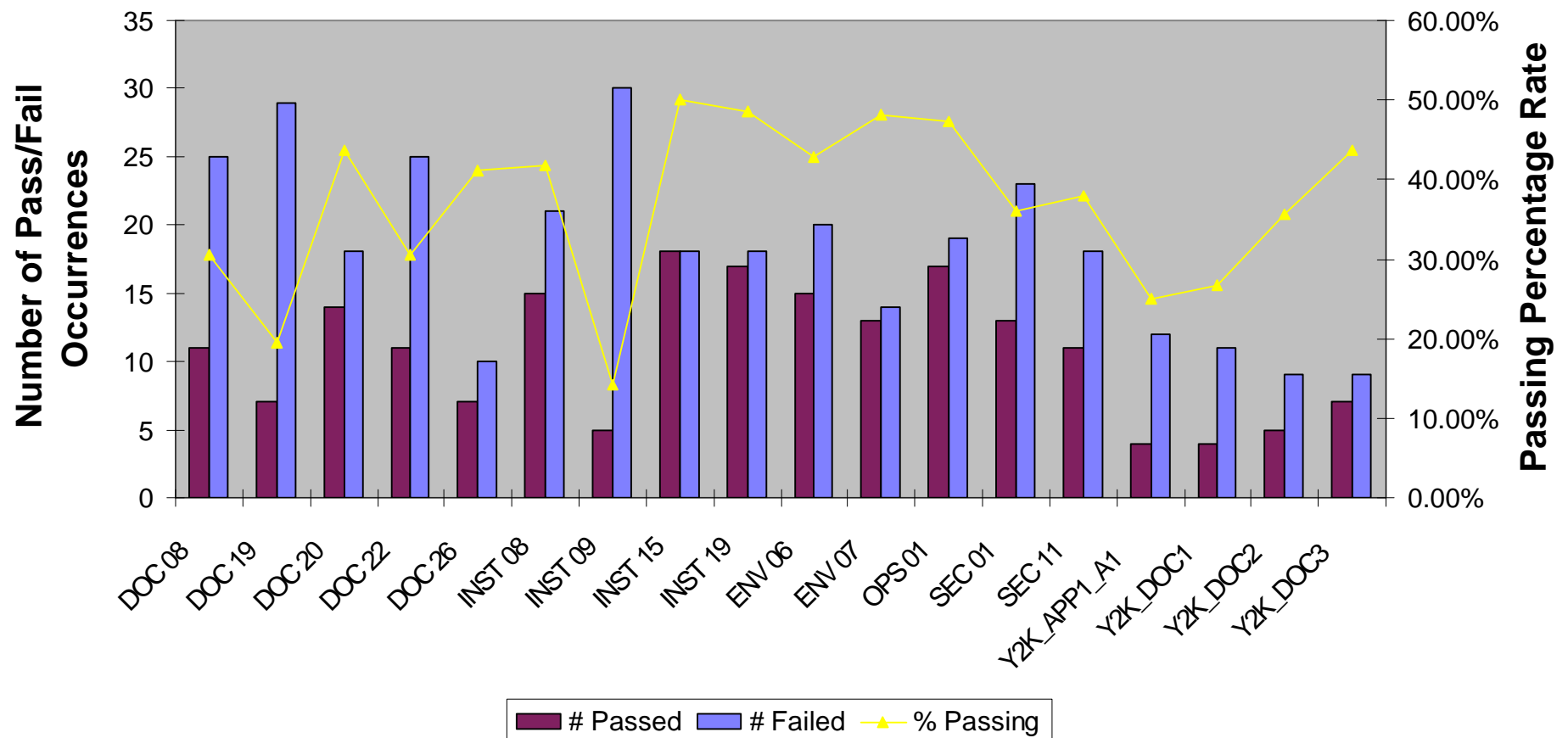
- Standards/targets – reduce the frequency of the most common defects by 5% in FY2001.
- Requirements which were failed more than 50% of the time in FY2000:

DOC 08	DOC 19	DOC 20	DOC 22
DOC 26	INST 08	INST 09	INST 15
INST 19	ENV 06	ENV 07	OPS 01
SEC 01	SEC 11	Y2K-APP.1(A.1)	
Y2K-DOC.1	Y2K-DOC.2	Y2K-DOC.3	

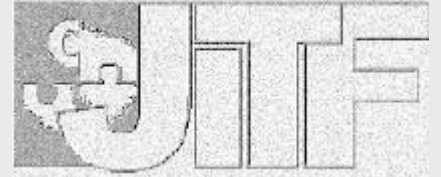
Requirements Not Met



Most Frequently Failed Requirements

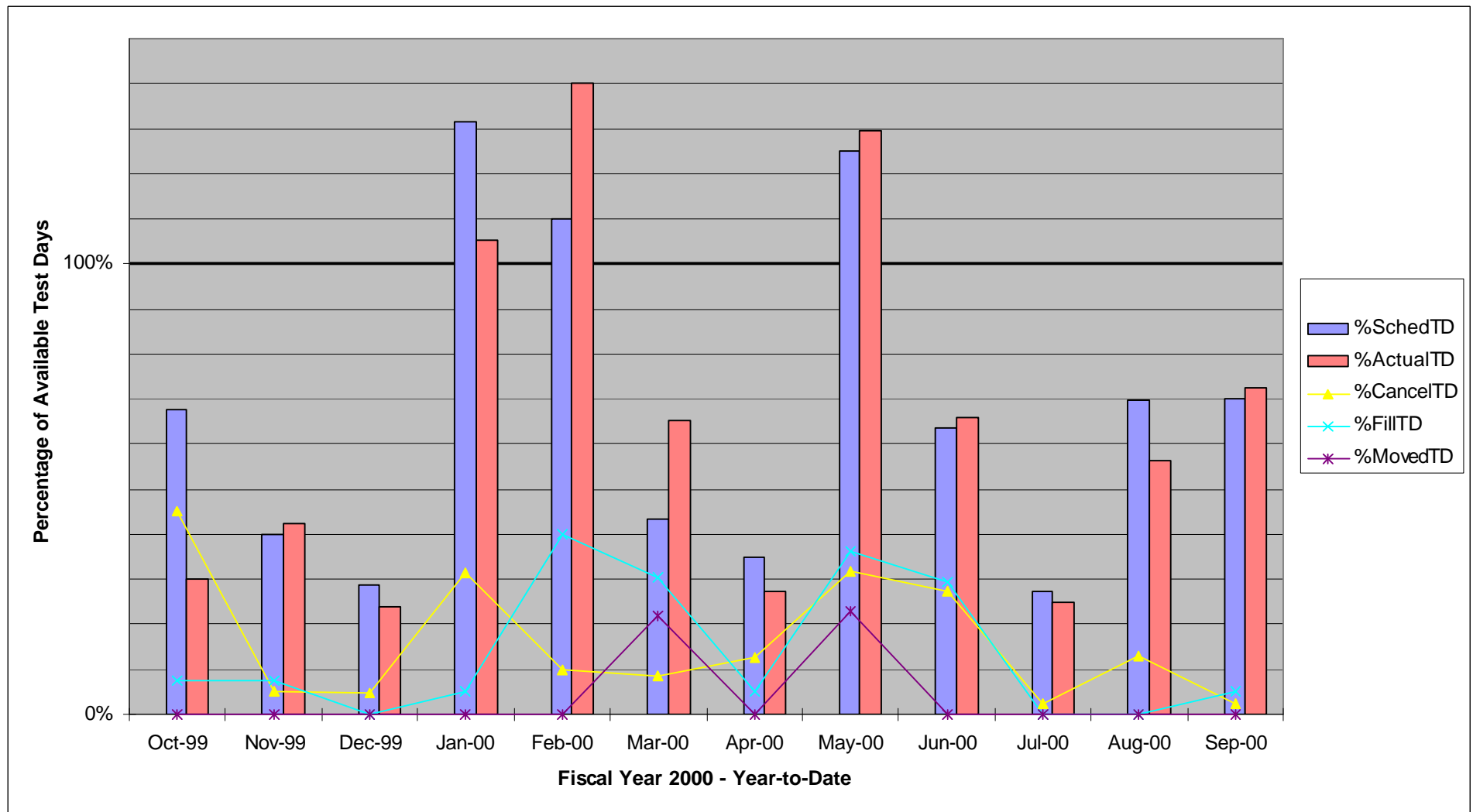
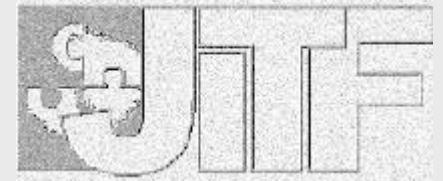


Metric 3A: Schedule Volatility

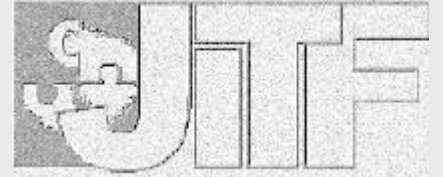


- Standards/targets – reduce the schedule volatility by 5%
- **31** of **45** test events had scheduling changes less than 30 days prior to test.
- **68.89%** schedule volatility
- The more “Line” graph activity, the more the schedule changed.
 - Movement line shows how much movement within the month.
 - Cancelled line shows how often scheduled test days were cancelled.
 - Filled line shows how often test events either extended the test event duration or required additional time for retesting.

Schedule Volatility



Metric 3B: Comments Against Test Report



- Standards/targets – No more than 3 typographical comments and 5 technical comments against the draft test report.

» NOTE: Below, technical comments are those counted under the “Protest” description.

- Typographical: Average = 2.3 occurrences per test

10 of 37 had more than 3 typographical errors.

- Protest: Average = 5.8 occurrences per test

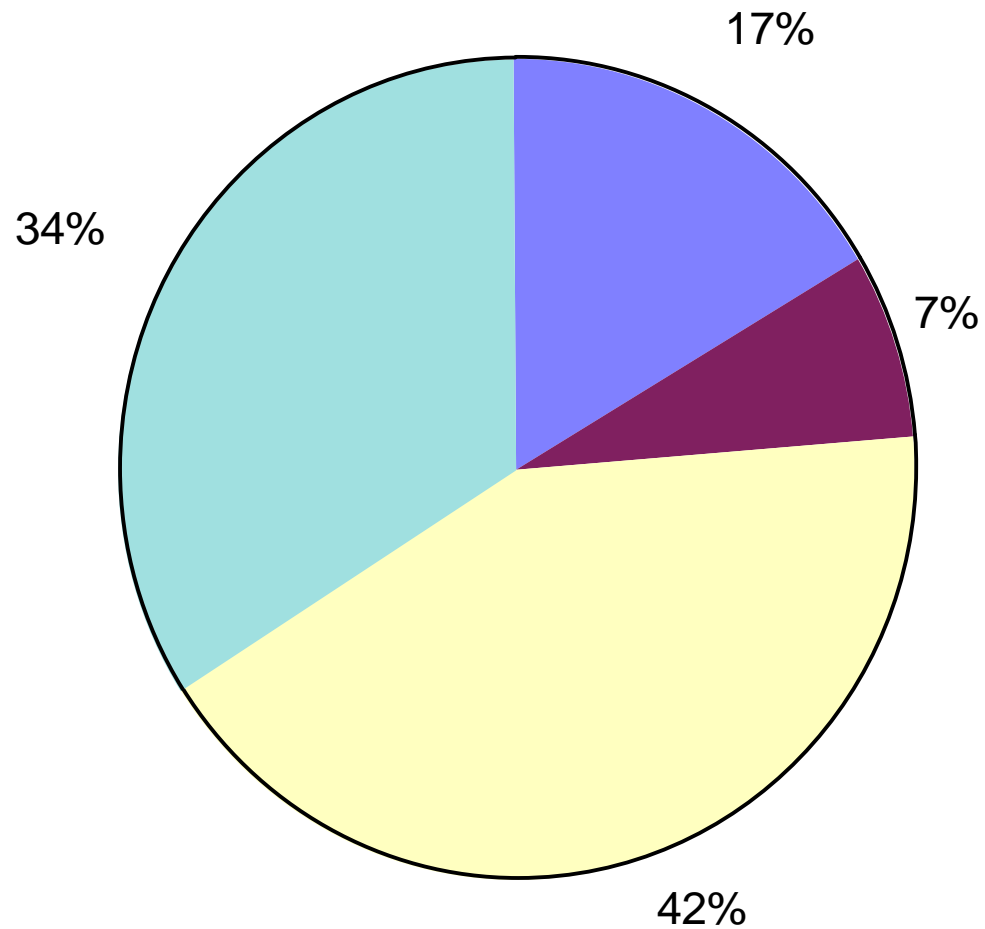
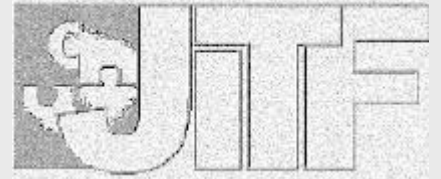
9 of 37 had more than 5 protests

- Format/Word-smithing: Average = 1.0 occurrences per test.

- Other (comments not related to the modification of the Draft TR):
Average = 4.7 occurrences per test.

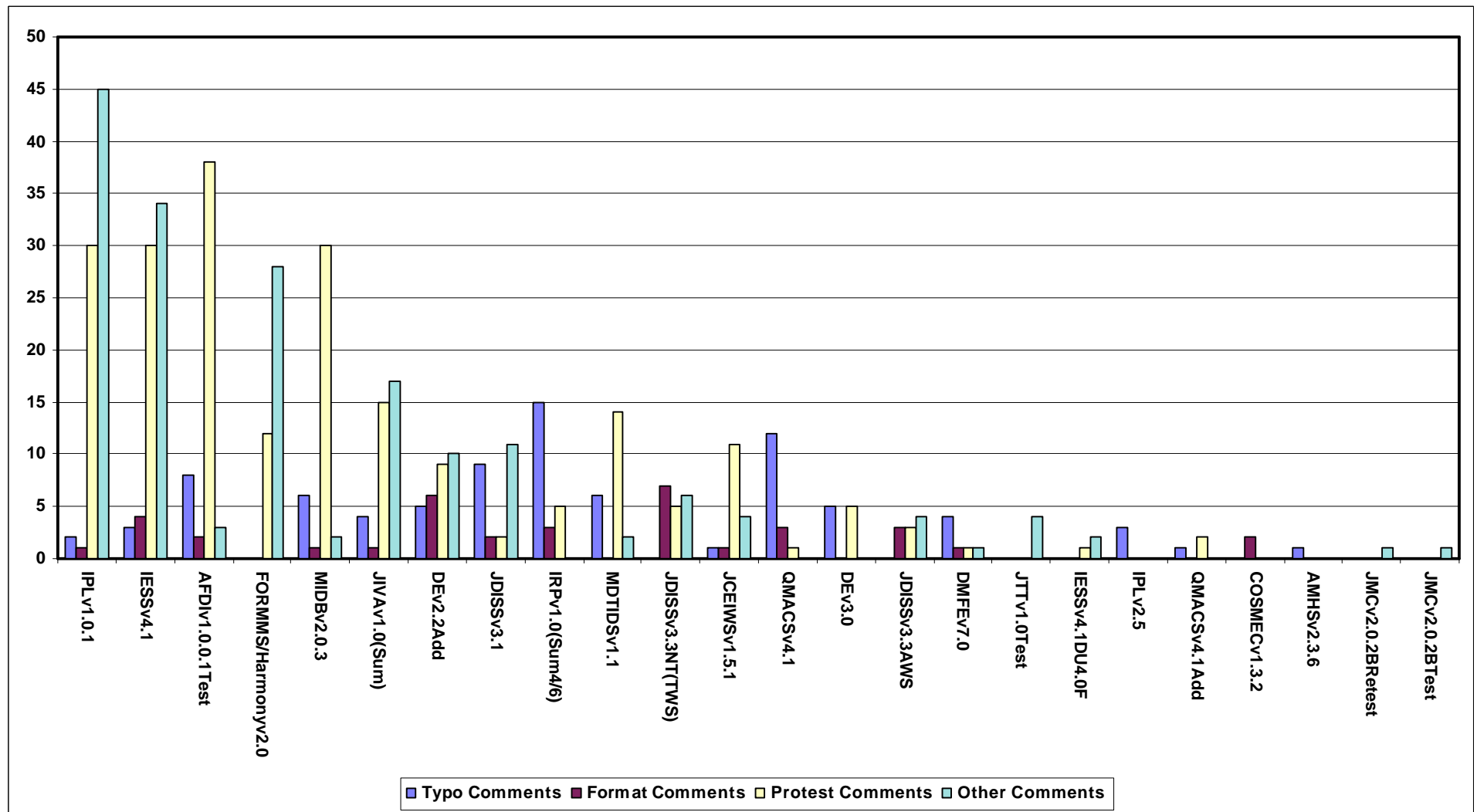
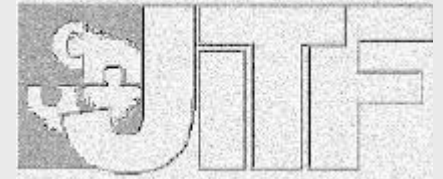
- Modify our protest goal to read “substantiated” protests.

Comments Against Test Report

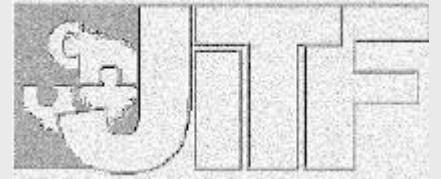


- Typo
- Format
- Protest
- Other

Comments Against Test Report

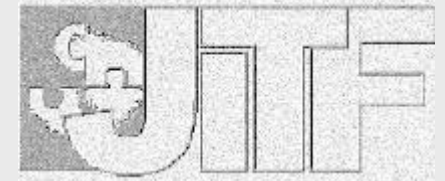


Defects Found in FY 2000

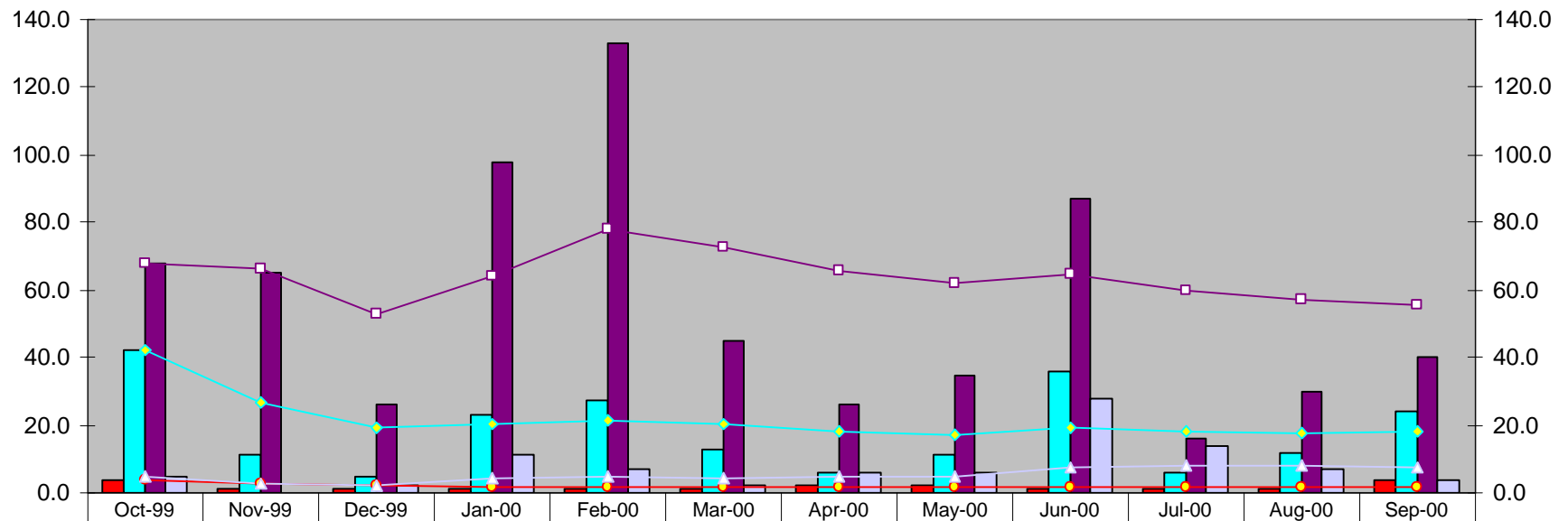


- Although this is not a performance measurement, we are tracking the number of integration defects identified in tested products.
- We feel that this is defect identification process assists the Program Management Offices to improve the integration quality of the end product.
- This ultimately assists the end-user in receiving the highest quality software possible.

Document Test Findings

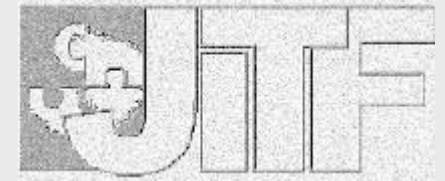


Document Test Findings - Year-to-Date

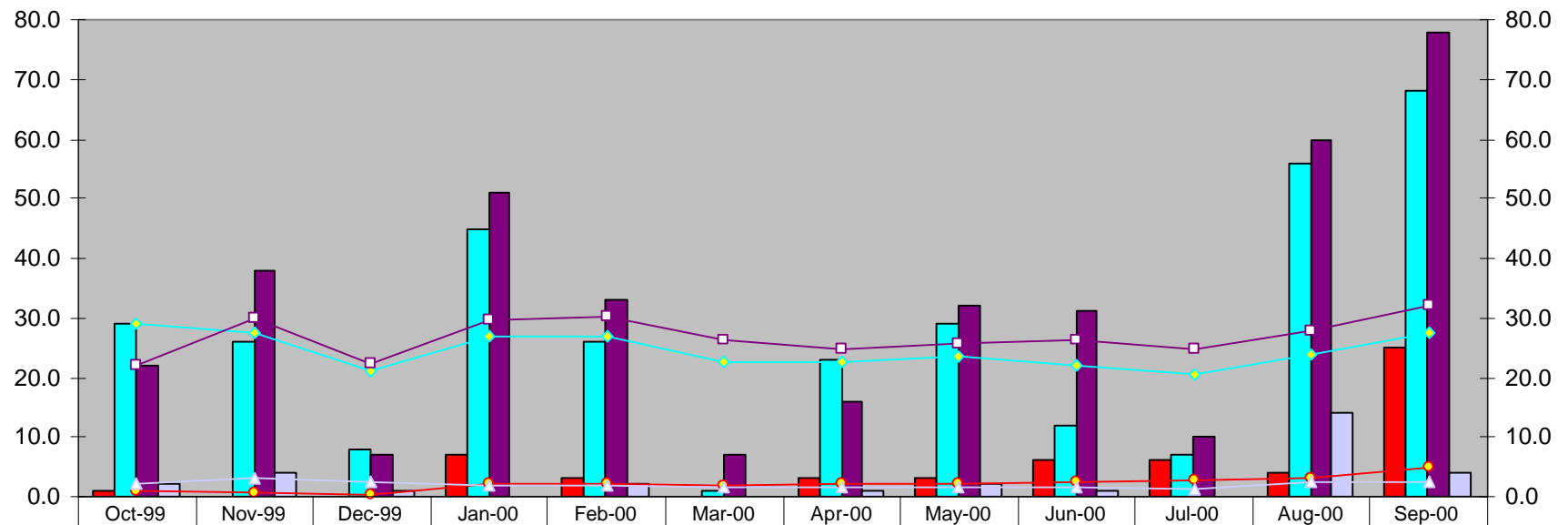


# of DF IC 1	4.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	4.0
# of DF IC 2	42.0	11.0	5.0	23.0	27.0	13.0	6.0	11.0	36.0	6.0	12.0	24.0
# of DF IC 3	68.0	65.0	26.0	98.0	133.0	45.0	26.0	35.0	87.0	16.0	30.0	40.0
# of DF IC 4	5.0	0.0	2.0	11.0	7.0	2.0	6.0	6.0	28.0	14.0	7.0	4.0
Average DF IC 1	4.0	2.5	2.0	1.8	1.6	1.5	1.6	1.6	1.6	1.5	1.5	1.7
Average DF IC 2	42.0	26.5	19.3	20.3	21.6	20.2	18.1	17.3	19.3	18.0	17.5	18.0
Average DF IC 3	68.0	66.5	53.0	64.3	78.0	72.5	65.9	62.0	64.8	59.9	57.2	55.8
Average DF IC 4	5.0	2.5	2.3	4.5	5.0	4.5	4.7	4.9	7.4	8.1	8.0	7.7

Software Test Findings



Software Test Findings - Year-to-Date



# of SF IC 1	1.0	0.0	0.0	7.0	3.0	0.0	3.0	3.0	6.0	6.0	4.0	25.0
# of SF IC 2	29.0	26.0	8.0	45.0	26.0	1.0	23.0	29.0	12.0	7.0	56.0	68.0
# of SF IC 3	22.0	38.0	7.0	51.0	33.0	7.0	16.0	32.0	31.0	10.0	60.0	78.0
# of SF IC 4	2.0	4.0	1.0	0.0	2.0	0.0	1.0	2.0	1.0	0.0	14.0	4.0
Average SF IC 1	1.0	0.5	0.3	2.0	2.2	1.8	2.0	2.1	2.6	2.9	3.0	4.8
Average SF IC 2	29.0	27.5	21.0	27.0	26.8	22.5	22.6	23.4	22.1	20.6	23.8	27.5
Average SF IC 3	22.0	30.0	22.3	29.5	30.2	26.3	24.9	25.8	26.3	24.7	27.9	32.1
Average SF IC 4	2.0	3.0	2.3	1.8	1.8	1.5	1.4	1.5	1.4	1.3	2.5	2.6